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| <b>Search Notes</b><br><br> | <b>Application/Control No.</b><br><br>10553754 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>IIDA, MAKOTO |
|  | <b>Examiner</b><br><br>SEYED M MALEKZADEH      | <b>Art Unit</b><br><br>1791  |

| SEARCHED |                                  |            |          |
|----------|----------------------------------|------------|----------|
| Class    | Subclass                         | Date       | Examiner |
| 117      | 2, 3, 13, 20, 81, 83, 207, 328.1 | 03/12/2007 | SMM      |
| 117      | 11, 15, 35, 37, 38, 39, 911      | 05/12/2009 | SMM      |

| SEARCH NOTES   |            |          |
|--|------------|----------|
| Search Notes   | Date       | Examiner |
| Use palm intranet to search inventor's name  | 03/12/2007 | SMM      |
| Use text search through EAST to find patents related to the application, examiner used keywords such as "single crystal" | 03/12/2007 | SMM      |
| Updated previous search  | 09/12/2007 | SMM      |
| Updated previous search  | 03/11/2008 | SMM      |
| Updated previous search  | 10/29/2008 | SMM      |
| Updated previous search  | 05/12/2009 | SMM      |

| INTERFERENCE SEARCH |  |            |          |
|---------------------|--|------------|----------|
| Class               | Subclass   | Date       | Examiner |
| 117                 | 11, 13, 15, 39, 911                              | 05/12/2005 | SMM      |
|                     | PGPub text search (see attached search printout) | 05/12/2009 | SMM      |

/SEYED M MALEKZADEH/  
Examiner, Art Unit 1791